

Appl. No. 10/099,758
Amendment and/or Response
Reply to Office action of 15 March 2004

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A display substrate, comprising:
a plate;
at least one display component formed on the plate; and
an acoustic transducer formed on the plate over a cavity;
wherein the cavity is formed in the plate.
2. (Original) A display substrate according to claim 1, wherein
the acoustic transducer is a microphone or a speaker, and comprises a fixed electrode and a diaphragm comprising a vibrating electrode.
3. (Currently amended) A display substrate ~~according to claim 2,~~ comprising:
a plate;
at least one display component formed on the plate; and
an acoustic transducer formed on the plate over a cavity;
wherein
the acoustic transducer is a microphone or a speaker, and comprises a fixed electrode and a diaphragm comprising a vibrating electrode, and
the vibrating electrode is formed from a same layer of conductor as at least a first part of the one or more display components.

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4. (Currently amended) A display substrate ~~according to claim 2~~, comprising:
_____ a plate;
_____ at least one display component formed on the plate; and
_____ an acoustic transducer formed on the plate over a cavity;
wherein
_____ the acoustic transducer is a microphone or a speaker, and comprises a fixed
electrode and a diaphragm comprising a vibrating electrode, and
the fixed electrode is formed from a same layer of conductor as at least a
second part of the one or more display components.
5. (Original) A display substrate according to claim 2, wherein
the diaphragm further comprises an insulation layer.
6. (Original) A display substrate according to claim 5, wherein
the insulation layer of the diaphragm is formed from a same insulation layer as
at least a part of the at least one display component.
7. (Currently amended) A display substrate according to claim ~~4~~ 3, wherein
the cavity is between the acoustic transducer and a surface of the plate.
8. (Currently amended) A display substrate according to claim ~~4~~ 3,
wherein the cavity is formed in the plate.
9. (Currently amended) A display substrate according to claim ~~8~~ 1, wherein
the cavity extends the whole depth of the plate.
10. (Currently amended) A display substrate according to claim ~~8~~ 1, wherein
the cavity is a powderblasted cavity.

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11. (Currently amended) A display substrate ~~according to claim 4~~, comprising:

a plate;
at least one display component formed on the plate; and
an acoustic transducer formed on the plate over a cavity;
wherein

the at least one display component forms an active matrix array such that the display substrate is an active matrix substrate for a liquid crystal display device.

12. (Original) A display substrate according to claim 11 wherein
the active matrix array comprises thin-film-transistors and
the vibrating electrode is formed from a same layer of conductor as the gates
of the thin-film-transistors.

13. (Original) A display substrate according to claim 11, wherein
the active matrix array comprises pixel electrodes and
the fixed electrode is formed from a same layer of conductor as the pixel
electrodes.

14. (Original) A display substrate according to claim ~~4~~ 8, wherein
the at least one display component is a common electrode such that the
display substrate is a passive substrate for a liquid crystal display device.

15-34. (Canceled)

35. (New) A display substrate according to claim 3, wherein
the at least one display component forms an active matrix array such that the
display substrate is an active matrix substrate for a liquid crystal display device.

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36. (New) A display substrate according to claim 35, wherein
the active matrix array comprises thin-film-transistors and
the vibrating electrode is formed from a same layer of conductor as the gates
of the thin-film-transistors.
37. (New) A display substrate according to claim 4, wherein
the at least one display component forms an active matrix array such that the
display substrate is an active matrix substrate for a liquid crystal display device.
38. (New) A display substrate according to claim 37, wherein
the active matrix array comprises thin-film-transistors and
the vibrating electrode is formed from a same layer of conductor as the gates
of the thin-film-transistors.
39. (New) A display substrate according to claim 37, wherein
the active matrix array comprises pixel electrodes and
the fixed electrode is formed from a same layer of conductor as the pixel
electrodes.
40. (New) A display substrate according to claim 4, wherein
the cavity is between the acoustic transducer and a surface of the plate.
41. (New) A display substrate according to claim 4, wherein
the cavity is formed in the plate.
42. (New) A display substrate according to claim 11, wherein
the acoustic transducer is a microphone or a speaker, and comprises a fixed
electrode and a diaphragm comprising a vibrating electrode.

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43. (New) A display substrate according to claim 11, wherein
the cavity is between the acoustic transducer and a surface of the plate.
44. (New) A display substrate according to claim 11, wherein
the cavity is formed in the plate.